

Cal/Ecotox

Exposure Factors for Pacific Giant Salamander (*Dicamptodon ensatus*)^{*}

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Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Body Weight - Mean	24.0	9.9		g	NR	Adult	Lab	a	1
Body Weight - Mean	20.8	8.3		g	NR	Juvenile	Lab	b	1
Clutch or Litter Size			83 - 146	eggs/clutch	F	Adult	OR	c	2
Dietary Composition	Coleoptera adult (0.21); Orthoptera adult (0.13); Diptera adult (0.07); Lepidoptera larvae (0.20); Hymenoptera (0.05); Arachnida (0.15); Acarina (0.05); Diplopoda (0.37); Isopoda (0.05); Gastropoda (0.50); Amphibian (0.75); Reptilia (5.20); Mammalia (5.50); Rocks (0.05); Vegetable matter (0.05)			cc	NR	Adult	Del Norte; Humboldt; Marin; CA	d	3
Dietary Composition	Ephemeroptera (59.1%); Trichoptera (11.7%); Plecoptera (4.5%); Diptera (8.1%); Coleoptera (3.6%); Odonata (1.0%); Hemiptera (<1.0%); Non-Insecta (3.4%); Vertebrates (<1.0%); Terrestrial organisms, Insecta (8.8%)			%	NR	Juvenile	Mendocino; CA	e	4
Dietary Composition	Ambystoma gracile (39.2%); Trichoptera larvae (19.6%); Trichoptera adults (1.9%); Coleoptera larvae (37.2%); Coleoptera adults (21.6%); Odonata larvae (70.5%); Odonata adults (1.9%); Ephemeroptera nymphs (1.9%); Gammarid amphipoda (3.9%); Hemiptera adults (5.9%); Arachnoidea (3.9%); Chironomidae (19.6%); Oniscoid isopoda (1.9%); Misc. (25.5%); Empty (3.9%)			%	NR	Juvenile	Humboldt; CA	f	5
Dietary Composition	Asaphus truei larvae (7%); Gastropoda (1%); Nematomorpha (1%); Arachnoidea (4%); Plecoptera nymphs (23%); Tricoptera larvae (26%); Tricoptera adults (3%); Coleoptera larvae (15%); Coleoptera adults (14%); Ephemeroptera nymphs (14%); Diptera larvae (10%); Diptera adults (5%); Lepidoptera (2%); Orthoptera (1%); Misc. (23%)			%	NR	Juvenile	ID	g	6
Dietary Composition	see citation			d	NR	NR	WA	h	7
Duration of Incubation or Gestation	275				NR	Embryo	OR	i	2
Growth Rate			2.92 - 4.16	mm/mo	NR	Juvenile	ID; OR	j	8
Metabolic Rate	20.7 (10C); 31.2 (15C); 63.3 (20C)			ul O ₂ /g/hr	NR	Adult	Lab	k	1

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Endpoint Type	Endpoint Value	Error	Range	Units	Sex	Life Stage	Location	Note	Reference
Metabolic Rate	15.2 (10C); 20.7 (15C); 24.0 (20C)			ul O ₂ /g/h	NR	Juvenile	Lab	l	1
Population Density	see citation			#/m ²	NR	Juvenile	Mendocino; CA	m	9
Population Density			0.09 - 1.24	#/m ²	NR	Juvenile	Mendocino; CA	n	4
Population Density	0.50	0.24 SE		#/m ²	NR	NR	OR	o	10
Population Density	2.28	0.36 SE		#/m ²	NR	NR	OR	p	10
Survival/ Mortality	57			%	NR	Juvenile	OR	q	8
Time of Fledging or Metamorphosis	July - Sept.				NR	Juvenile	Mendocino; CA	r	4
Time of Mating/ Laying	May			F	Adult		OR	s	2

Notes

- a N=14
- b N=17; Age=larvae
- c N=2; Benton County
- d mean volume of gut contents; N=12
- e average proportion of total prey items in stomach contents on 11 sampling dates; N=502; yr-round; Fox Creek [lat., 38°04'N, 123°04'W]; see citation for seasonal and ontogenetic changes in dietary composition
- f % frequency of occurrence in stomach contents; N=51; May; Fern Lake, Arcata; snout-vent length range 61 - 185 mm
- g % of stomachs containing the item; N=50; May - Oct.; Palouse River, Latah County
- h monthly % of gut content samples in which organism occurred (n=38 diet items); N=3-34/mo; Apr.-Oct.; Maratta Creek, Cowlitz County
- i N=NR; Benton County
- j increase in total length; N=NR; Mary's Peak and Palouse; see citation for seasonal changes in total length
- k average oxygen consumption measured at various temperatures (10-20C); N=4-5/temperature; average body weight, 24.0 g
- l average oxygen consumption measured at various temperatures (10-20C); N=4-7/temperature; average body weight, 20.0 g
- m figure of population density estimates; N=NR; Sept.-Oct.; Caspar Creek
- n range over 4 yrs; N=NR; yr-round; Fox Creek [lat., 38°04'N, 123°04'W]
- o N=20 stream reaches; June - Aug.; streams in logged forests, Lane, Douglas and Coos counties
- p N=23 stream reaches; June - Aug.; streams in uncut forests, Lane, Douglas and Coos counties
- q % mortality during first yr of life; N=61; Gauldy Mountain, Tillamook County
- r N=NR; Age=2-3 yrs; Fox Creek [lat., 38°04'N, 123°04'W]
- s time of laying; N=2; Benton County

References

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